

Use Attainability Analysis

for

WBID 530 Sheep Creek

Submitted by BWR

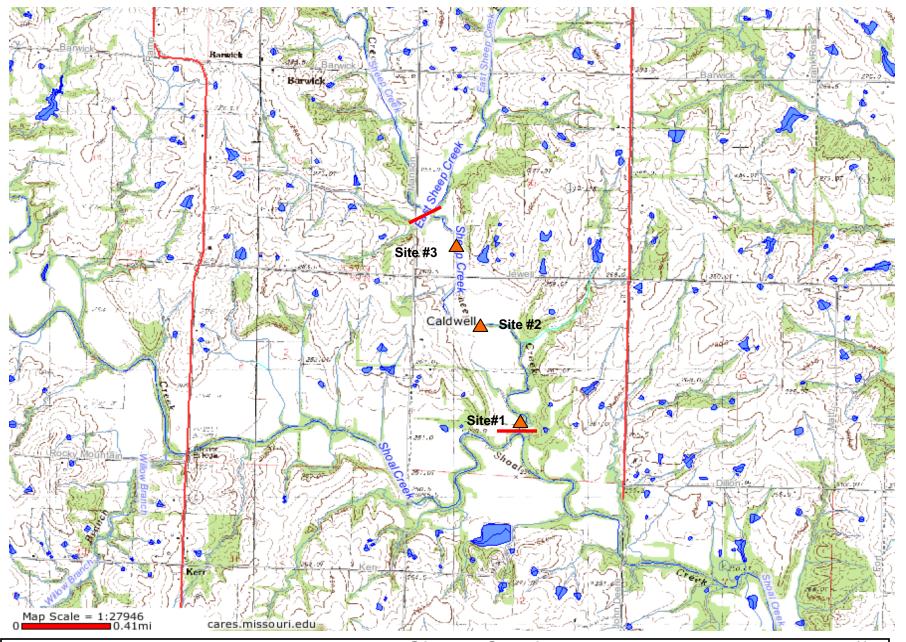
July 11, 2007

Submitted to:
Missouri Department of Natural Resources
Division of Environmental Quality
Water Protection Program

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet A - Water Body Identification

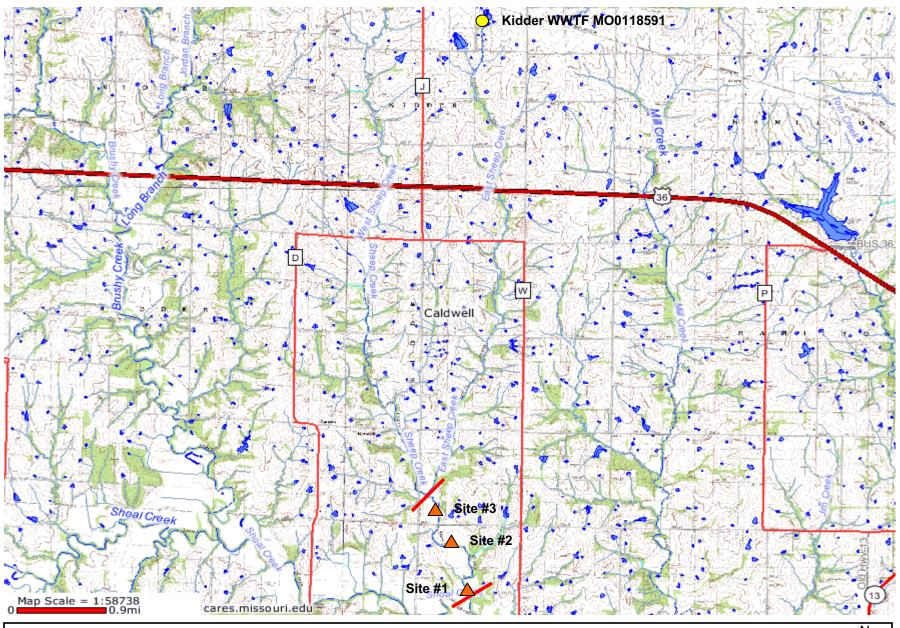
1. Water Body Information (For water body being surv	eyed)									
Water Body Name (from USGS 7.5' quad): SHEE	Water Body Name (from USGS 7.5' quad): SHEEP CREEK									
Missouri Water Body Identification (WBID) Numb										
8-digit HUC: 10280101	County: CALDWELL									
Upstream Legal Description (from Table H): 1, 5										
Downstream Legal Description(from Table H): //	0074									
Number of sites evaluated 3										
List all sites numbers, listed consequently upstream	to downstream:									
3, 2, 1										
Site Locations Map(s): Attach a map of entire segme any other items that may be of interest. II. Subegmentation (fill this section out only in cases	S Where subesamentation is boing proposed)									
Upstream Coordinates:	Downstream Coordinates:									
UTM X **HORIZONTAL COLLECTION METHOD (Indicate the method used to determine	UTM X Y									
Global Positioning System (GPS)	Interpolation									
Static Mode	Topographic Map or DRG									
Dynamic Mode (Kinematic)	Aerial Photograph or DOQQ									
Precise Positioning Service	Satellite Imagery									
Signal Averaging	Interpolation Other									
Real Time Differential Processing										
GPS Data Quality										
FOM ± Meters	Interpolation Data Quality									
EPE	Source Map Scale: 1:24,000 1:100,000 Other									
PDOP	±Feet or ± Meters									
III. Discharger Facility Information (list all permitted	±Feet or ±Meters dischargers on the stream)									
Discharger Facility Name(s): KIDDER W										
Discharger Permit Number(s): MOØ 1185	91									
IV. UAA Surveyor (please print legibly)										
Name of Surveyor ALEX BARTLETT	Telephone Number: 816, 363. 2696									
Organization/Employer: BWR CORPORATION										
Position: ENVIRONMENTAL SCIENTIST										
Please verify that you have completed all sections, cleomplete.	hecked all applicable boxes and that everything is									
Signad No. 7	.]]									
February 5, 2007	Date: 6 19 07									
reducting 5, 2007	Page 22									





Sheep Creek WBID #530







Sheep Creek
WBID #530
(Showing Kidder WWTF M00118591) Pg. 2 of 2



ID#_530 #	g 100	Field Data Sa Dat	a She	et B	ecreation - Site Cl empleted f	naracte	rizatio			
Date & Time: 6	19/07 10	630			Site Locat	ion Descrip	otion (e.g.,	road crossing):	1 - 1 4	
	Personnel (Data Collectors): BARTLETT & WAT				UPSTR	EAM O	F cor	SFLUENCE	WITH SHOAL	
									CRK.	
Current Weather	Conditions:	CLEAR ~ 80	0		Facility N	ame: K	DDER	WWTF		
Weather Condition	ns for Past 1	0 days: FAIR			Permit Nu	mber: M	00119	8591		
Drought Conditio	ne? No dro	ught 🗷: Phase I 🗆	· Dhoca	II 🗀 DI	2000 III 🗆 .	D1 IV [7			
te Locations:	115:. 140 UIO	agiit Tilase I	, r nase	11 (1, F1	lase III LI;	Phase IV L	1, Unkno	wn 🗀	CONFLUEN	
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	Global P	ositioning System (0	SPS)	(4 100 HC)()	manus and acceptance	udiiai-data y		Interpolati	on	
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Signal Averaging						Interpolation Other				
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PDOP			*			*	Ι_	Feet or ±	weters	
otos:				×.					*	
U	pstream Pho	itos		, D	ownstream	Photos			Other Photos	
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530 - 3,4	TRAN.		530-			1 B1	A		10 control of 00 €00 €0000€0	
ses Observed	l*: (Uses a	actually observe	ed at t	ime of	survey.)				- 1	
☐ Swimming		☐ Skin diving	187	□ sc	CUBA diving	3	☐ Tub	ing	☐ Water skiing	
☐ Wind surfing	5	☐ Kayaking		□ Во	Boating		☐ Wading		☐ Rafting	
☐ Hunting ☐ Trapping ☐ F			☐ Fi	shing		™ Nor	e of the above	☐ Other:		
Describe: (Inclu Use Interview w	de number o hen conduc	of individuals recreating interviews.)	ating, ph	oto-doc	umentation o	of evidence	of recrea	tional uses, etc. I	Jse Data Sheet D- Recred	
	ondition interest.)	s*: (Mark all th	at pron	note or	r impede r	ecreation	al uses.	Attach photos	of evidence or	
urrounding C nusual items of				conservation lands Urba		1.6				
nusual items of	parks	☐ City/county parks ☐ Playgrounds ☐ MDC		MDC co	nservation l	ands	Urb	an areas	☐ Campgrounds	
nusual items of		☐ Playgrounds ☐ State parks			nservation l	ands		ure trails	☐ Campgrounds ☐ Stairs/walkway	

February 5, 2007

Indications of Human Use*: (attach photos)

☐ Rope swings

☐ Foot paths/prints

☐ Fire pit/ring

☐ Dock/platform

☐ NPDES Discharge

☐ Livestock Watering

☐ Fishing Tackle

Comments:

Roads

Comments:

☐ Camping Sites

☐ RV / ATV Tracks

Other:

Select one of the following channel features: Channel Feature Distance from access (m) RIFFLE RUN POOL Downstream View's Physical Dimensions: Is		21	HANNE	EL FEATURE	/0
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Odor: Color: Clear Green Bottom Deposit: Sludge Solids Surface Deposit: Oil Scum Chis information is not to be used solely for removal omprehensive understanding of water conditions. Conscision on the recreation use analysis but may point the section of the section	ACCIAL I	GROWT	H ON	SAND.	
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Bottom Deposit: Sludge Solids Surface Deposit: Oil Scum omments: Please attach any additional contribution is not to be used solely for removal imprehensive understanding of water conditions. Contribution on the recreation use analysis but may point the lease verify that you have completed all sections.	☐ Chen	nical	None	☐ Other:	
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organization: BWR COPP.				N. SCI.	

Data Sheet C – Cross-Sectional Depth Measurements (for estimation of median depth)

Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
WETTED WIDTH	<0.1		1 CHANNEL F	-1-10-1
2 110	40.1		1 CHANNEL F	enoke.
3	20.1		3	
4 MEASUREMENTS	< 0.1		4 DISSOLVED	OXIGE 1:
5 _0.1 _ m	<0.1		5	OXYGEN:
G ABART	<0.1		6 9,18	0-44
7	10-1		7	ppM
8	40.1		8	el consesso e
9	(0)		9	
10	<0.1		10	
	7070		11	The Mark House of the Court of
1 WETTED WIDTH	50.1		12 CHANNEL	FEANRE ".
2 1.7	20.1		13 RUN	remove
3	401		14	
4 MEASUREMENTS	40.		15 DISSOLVED	extren:
5 0.12 M	10.		16	्राष्ट्र.
4 APART	40.1		17 8,79	0044
7	40.1	9	18	PPM
9	(0.)		19	
9	<0.1		20	
10	< 0.1		21	
				- FEATURE:
1 WETTED WIDTL	(60.1		23 RIN	- TOTOPE.
2 7,0	20.(24	
3	< D.			ED OXYGEN:
4 MEASUREMENT	(D)		26	
5 0.70 m	50.1		. 8.82	DPM
6 ARARY	<0.1			ppm
7	40.1			
8	<0.1		n	
9	co.			
10	<0.1			

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

l, the undersigned, hereby affirm to the best	of my knowledge, that al	ll information reported on this UAA
datasheet is true and accurate.		•
N 2017		1 1
Signed:	Date: 6	1907
·		

Organization: BUR COPP. Position: DN. SCI.

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

			550		
	Distance from	Depth	Rank	Assigned Rank Sorted depth	
	Stream edge				
į	WETTED WIDTH	40.		1 CHANNEL FEATURE:	
23	2.4	20,1		2 TUN 100%	
3		28,1		3	
4	MEASUREMENTS	26.1		4 DISSOLVED OXYGEN:	i i
5	0,24 M	LO, 1		5 8657	
6	APART	10,1		6 Ppm	
7		10,1		7	
8		40,1		8	
9		(0,1		9	
10		10,1		10	-
				11 CHANNEL FEATURE:	
1	METTED WIDTH	201		12 Run	
2	Z.6	20,1		13	
3		<0.1		14 DISSOLVED OXYGEN:	
4	MEASURE MENTY			15	
5	0.20 n	101		16 8.31 ppm	
6	APART	4011		17	
7		K D, 1		18	
8		40.1		19	
9		< 0,1.		20	
10		20,1		21	
				22 CHANNEL FEATURE:	
(WETTED WIDTH	20.		23 RJN	
7	1.6	40.1		24	
3		< n.		25	
4	MEASUREMENT	140,1		26 DISSOLVED OXYGEN	<i>'</i>
5		< 011		1.	
6	ARART	40.1		. 8.51 ppm	
7		20,			
8	·	0.1		n	270 E
1		0.1			-
10		0.1			-040100
				- dealers and a second	

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

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I, the undersigned, hereby affirm to the b	est of my knowledge, that all information reported on this UAA
datasheet is true and accurate.	
datasheet is true and accurate. Signed:	1 1
Signed: Alworth	Date: 6/19/07
,	

Position: ENV. SCI.

February 5, 2007

Organization: SWR CORR

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

Distance from	Depth	Rank	Assigned Rank	Sorted depth
Stream edge	***			l serve separ
WETTEDWIDTH	2011		1 CHANNEL	FEATURE !
2.2	401		2 Run	
	<0.1		3	
MEGUPENENTS	< 0.1		4 DISSOLVE	D OXYGEN:
0.77 m	< 0,1		5	
APART	<011		6 8.3	7 ppm
	< 0,1		7	
	< 0.1		8	
	< 0.	- 22	9	
	<0.1		10	The same of the sa
			11	
METER WIDTH	<0.1		12 CHANNE	- FEATURE:
RM 1.8	Co.		13 RJN	
	~ D.		14	
MEASUREMENTS	<01		15 DISSOLI	JED OXYGEN:
0.18 M	< 0.1		16	### 1.55 N
APART	< 0,1	200 0000	17 8.57	gen
	50.1		18	- 11
	40.		19	
	66,		20	
)	<0.		21	
			22	
METTED WIOTH	46.1		23 DX C44	UNEL FEATURE:
4.0	401		24 RJ	N
	Loi		25	
	(0,1		26 D1550	LUED OXYGEN:
MEGUREMENTS	<0,1			3
ASART	40.1		. 2.4	ppm
ABART	40.1			11
	<0.1		n	
0	ZO, 1 ZO, 1			

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best	of my knowledge, that all information reported on this UAA
datasheet is true and accurate.	
datasheet is true and accurate. Signed:	Date: 6 19 07
Organization: RIAR CORR	Position, talal Scl

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

Distance from Depth Assigned Rank Sorted depth Stream edge WETTED WIDTH 40.1 CHANNEL FOANRE! 0.1 2 RIFFLE 0. 3 4 MEASUREMENTS 0.1 4 DISSOLVED OXYGEN: 567 0112 M 0.1 5 APART 6 0,1 8.70 ppm 0.1 7 8 0,1 8 9 1.0> 9 0) 20,1 10 11 HENED WIDTH <0.1 12 CHANNEL FEATURE: 2 <0.1 4.2 13 RUN 3 401 14 4 < 0,1 MEASUREMENTS 15 PISSOLVED extuen: <01 5 0.42 16 67 <0 8,31 17 ARART < 0; 18 < 0.1 8 19 9 <0.1 20 60. 21 (0 22 23 24 25 26 n

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

I, the undersigned, hereby affirm to the best of my know	ledge, that all informati	on reported on this UAA
datasheet is true and accurate. Signed:	Date: 6/19/07	
Signed:	Date: 6 19 07	
Organization: BWE COPP.	Position: ENV. Sc1	
February 5, 2007		Page 25

· /BID# 530		Field Data Si	noofe	for Pa	acreation:	ol Hea	Stroom	Survoye			
ite#	li .		a She	eet B	- Site Cha	aracte	rizatio				
Date & Time: 6	119/07	1730	747		Site Locatio	n Descrip	otion (e.g.	road crossing):	N - 1		
Personnel (Data C	Personnel (Data Collectors): BARTLETT & LUAT					- MIDWAY BETWEEN SITES 1 & 3.					
Current Weather (0		Facility Nar	ne: VI	DER I	JI. ITE	- 1		
	Weather Conditions for Past 10 days: FAIR						0811				
Drought Condition	ne?: No dro	ught (); Phase I	Dhasa	п П. ю.							
Site Locations:	115:. 140 d10	agni, Ci, Flase I	rnase	11 (, F1	iase III LI; PI	lase IV L	I, Unkno	wn 🗀			
	INATES (UN	VERSALTRANSVERS	EMER	ATOR PE	Korje endoned	METERS	Maria Sa				
Site GPS Coord	inates: UT	MX: 39.69	511	1	Y:	094	.10 E	77			
		THOD (Indicate the me		1) ad to deter	mine the location	inal data					
	Global P	ositioning System (G	PS)					Interpolation	on .		
Static Mode							Map or DF				
Dynamic Mode (Kine						District St.	graph or De	DQQ			
Precise Positioning	Service				S	atellite Ima	igery				
Signal Averaging					Ir	nterpolation	Other				
Real Time Differenti						Service	-) (44.5	Karlantor	*150,445,444,600		
HORIZONIALACC	- plong the discount of the party of	GPS Data Quality					a de la composition della comp	Interpolation Data	a Quality		
FOM	±	Meters				2					
EPE	±	Feet or ±		Meters	Source Map Scale: 1:24,000 1:100,000 Other ± Feet or ± Meters						
PDOP							<u></u>	reer or ±_	Weters		
hotos:							170	3			
Uı	pstream Pho	otos		D	Downstream Photos Other Photos						
Photo ID#	Pho	oto Purpose	Photo	ID#	Pho	to Purpos	se	Photo ID#	Photo Purpose		
530 - 7,8	TRAN	J-K	530	-5,6	TRAN	1. B-A					
Jses Observed	*: (Uses :	actually observe	d at t	ime of	survey.)			<u></u>			
☐ Swimming		☐ Skin diving		□ sc	CUBA diving		☐ Tub	ing	☐ Water skiing		
☐ Wind surfing	,	☐ Kayaking		□ Во	oating		☐ Wading		Rafting		
☐ Hunting	☐ Hunting ☐ Trapping ☐ I		☐ Fis	shing		None of the above		☐ Other:			
Describe: (Inclu Use Interview w	de number o hen conduc	of individuals recreating interviews.)	ting, ph	oto-docı	umentation of	evidence			Ise Data Sheet D- Recreation		
Surrounding C unusual items of	ondition interest.)	s*: (Mark all th	at pro	mote or	r impede re	creation	ial uses.	Attach photos	of evidence or		
☐ City/county	parks	☐ Playgrounds		MDC cor	nservation lar	ıds	☐ Url	oan areas	☐ Campgrounds		
☐ Boating acc	esses	☐ State parks		National	l forests		☐ Nat	ure trails	☐ Stairs/walkway		
☐ No trespass	sign	☑ Fence	'M'	Steep slo	ones		П Мог	ne of the above	☐ Other:		

February 5, 2007

Indications of Human Use*: (attach photos)

☐ Rope swings

☐ Foot paths/prints

 \square Fire pit/ring

□ Dock/platform

☐ NPDES Discharge

☐ Livestock Watering

☐ Fishing Tackle

Comments:

☐ Roads

Comments:

☐ Camping Sites

RV / ATV Tracks

☐ Other:

				CHAI	UNEL FEATURE	/
* Pa Stre	ge Two – Data S eam Morphology	Sheet B for WBID #_	530 #7	RU	NEL FEATURE N: 100 RI	IFFLE !
		Physical Dimensions: I		present at this v	riew? Yes No	
			If so, is there an o	bvious current	? □Yes □ No) = ==================================
S	elect one of the fo	llowing channel featur			10 (2007) 10 (20	
_	Channel Feature	Distance from access (m)	Width (m)	Length (m)	Median Depth (m)	Max. Depth (m)
_	RIFFLE					,
L	RUN					
L	POOL					
		's Physical Dimensions	If so, is there as	1.00		No No
ř	Channel Feature	Distance from access (m)	Width (m)	Length (m)	Median Depth (m)	Max. Depth (m)
	RIFFLE	Distance from decess (iii)	Widdi (iii)	Lengur (III)	Wedian Depth (III)	iviax. Depui (III)
	RUN					
	POOL					
Sul	bstrate*: (These	values should add up to 10	0%.)			
[% Cobble		70 % Sand	10 %	Silt % Mud/Cla	ay % Bedroc
Aq		*: (Note amount of veget				
	SOME	MACROPHYTES &	on BANES) SPARSE	ALGAL GROW	40 ATG
W	ater Characteris	tics*: (Mark all that appl	w)		ä	
	Odor:	☐ Sewage ☐ Mu		nical 🗵	None	1
	Color:	☐ Clear ☐ Gre	en 🗆 Gray		Milky Other	:
	Bottom Deposit:	☐ Sludge ☐ Sol	ids Fine	sediments	None	:
	Surface Deposit:	□ Oil □ Sca	ım 🛮 Foan	n 🗆	None	
*T conde	This information is no imprehensive understaction on the recreation ease verify that your reveyor's Signature	, – ,	oval of a recreation Consequently, this oint to conditions th	al use designation is information is at need further a all applicable	not intended to directly in nalysis or that effect another.	nfluence a ther use. thing is complete.
O	rganization: <u>U</u>	NY COPY.	***************************************	Position: _	ENV. SCI.	

Data Sheet C – Cross-Sectional Depth Measurements (for estimation of median depth) 530 ± 2

Distance from	Depth	Rank	Assigned Rank	Sorted depth
Stream edge				
WETTED WIDTH	20,1		1 CHANNEL :	FEATURE:
7.5	<0.1		2 RUN	
3	40.1		3	
+ MEASUREMENTS	<0.1		4 DISSOLVED	OXYGEM:
0.75 m	<01		5	,
ABART	<0.	1	6 8.64	ppM
	<0.1		7	11
8	<0.1		8	
1	< 0.1		9	
0	<0.1		10	
			11	
MELLED MIDLY	<0.(12 CHANNEL	FEATURE ".
3.7	40.1		13 RUN	
3	<0.1		14	
4 MEASUREMENTS	40.1		15 DISSOLVET	DXYGEN:
5 0.32 M	40.1		16	
4 APART	<0.1		17 8,2	PPM
70	<0.1		18	111
9	<0.1		19	
10	<0.1		20	
10	70.1		21 22 CHANNE	
1 WETTED WIDTH	<0.1		23 RUN	L FEATURE:
10-11-1	<0.1		23 RUN 24	
2 2.2	< 0.1			UED OXYGEN:
4 MEASUREMENTS	< 0.1		26	ver oxyelen.
5 0:22 m	<0.1		. 8,40	D.C.M
6 ARART	<0.1		1. 8190	ppm
6 ARART	< 0.(
8	< 0. \		n	
9	< 0.1			
10	<0.			

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

I, the undersigned, hereby affirm to the best of my know	wledge, that all information reported on this UAA
datasheet is true and accurate.	a 1
Signed:	Date: 6 19 07
Organization: BUR CORP.	Position: ENJ. SCI.
February 5, 2007	Page 25

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

530 #2

Distance from	Depth	Rank	Assigned Rank So	rted depth
Stream edge				
WETTED WIDTH	<0.		1 CHANNEL FE	ATURE:
7 3,8	< 0.		2 RVQ	
3	< 0.1		3	
4 MEASUREMENTS	< 0.1		4 DISSOLVED D	XYGEN:
5 0.38 M	< 0.1		5	
6 APART	<0.1		6 8.46	OUM
7	< 0.1		7	bbm
9	<0.1	1	8	
9	< 0.1		9	
10	<0-1		10	
			11 CHANNEL &	EATURE:
I MELLED MIDLY	<0.1		12 RM	
2 3.2	40.1		13	
3	401		14 DISSOLVED 6	XYGEN:
4 MEASURE MENTY	Z 01		15	
5 0,32 m	10,1		16 8,47	ppm
6 APART	60.1		17	11
7	< 0.1		18	
8	< 0.1		19	
9	50.1		20	
18	20.		21	-
			22 CHANNEL &	EATURE:
1 MELLED MIDLY	20.1	-	23 RUD	
7 1.8	< 0.1		24	
3	< 0.1		25	
4 MEASUREMENTS			26 DISSOLVED	OXYGEN!
5 0118 n	< 0.1			
6 ARART	0.1		8.54	ppm
7	<0.1			11
8	40.1		n	- 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -
1	<0.1			
10	<0.1			

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of m	y knowledge, that all informa	tion reported on this UAA
datasheet is true and accurate.	E WI IS SHAPE ENDER	
datasheet is true and accurate. Signed:	-11	
Signed:	Date:61907	
3		

Position: ENV. SCI.

February 5, 2007

Organization: BUR CORP.

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
1. HETTED WIDT	H 501		1 CHANNEL	FEATURE !
2 1 1,7	20-1		2 RUN	,,,=
3	<0,1		3	
4 MERUPEMENT	3 <0.1		4 DISSOLVE	D OXYGEN:
5 OIF m	<0.1		5	
APART 7	201		6 8.33	ggm
	<0,1		7	
8	< 0.1		8	
	KO,1		9	i i
0	(0)		10	
			11	
1 MALED MIDE	4 <0.1		12 CHANNEL	FEATURE:
2 2.3	<0.1		13 RJN	
200	<0.1		14	
4 MEASUREMENT	B < 001		15 DISSOLU	ED OXYGEN:
5 0:73 M	< 0 / 1		16	
6 APÁRT 7	<0.1		17 \$.38	ppm
	<0.1		18	01
8	<0.1		19	
9	< 0.1		20	
	- FU.1		21	
1 1157750 120	74 <0,1		22	
2 DIS WID	714 ZO.1		23 Dolc Ungri	NEL FEATURE:
3	0.1		24 RU	N
4			25	
5 MEASUREMEN	275 0.1		26 DISSOL	NOD OXYGEN:
G 0.08 M			. 8,4	0
7 ASART	0.1		· ×,7	9 ppm
8	0.1		- l	V.
9			<u>n</u>	
10	0.1			

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

1, the undersigned, hereby affirm to the best of my know	wledge, tha	at all	info	rmation reported on this UAA
datasheet is true and accurate.		1	1	ľ
datasheet is true and accurate. Signed:	_Date:	6	19	07
Organization: BUR COPP.	_ Position:	E	201	.scl.

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

530 #2

Distance from	Depth	Rank	Assigned Rank	Sorted depth
Stream edge				
WETTED WIDTH	<0.1		1 CHANNEL FI	ANRE!
4.0	0.1		2 RUN	
A.	Orl		3	
MEASUREMENTS	0.1		4 DISSOLVED	oxygen:
0,40 m	<0,		5	
APART	< 0.1		6 8,45	DONA
	0.1		7	Shw
	0.		8	
	<0,1		9	
16	CO.1		10	
			11	
HTOIN COTTON	40.1			FEATURE:
3.5	0.1		13 RUN	101110
	0.1		14	
MEASUREMENTS	0.1		15 PISSOLVE	D OXYGEN:
0.35 M	0.1		16	1 119014
APART	0.1		17 8,78	0.040
5.3	0.1		18	ppm
	0.1		19	
	20.1		20	
	401		21	
	80		22	
			23	*
			24	
			25	
			26	
			n	

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best	t of my knowledge, that all information reported on this UA	A
datasheet is true and accurate.	EN 2003 CE SE ENTE BEST MARKE MARKET	
) /	
Signed:	Date: 6 19 07	
	6/1/1/	
Organization: WWR CORP.	Position: ENV. Scl.	

WBID#_	530
Site#	3

Field Data Sheets for Recreational Use Stream Surveys Data Sheet B - Site Characterization (must be completed for each site)

				(must	pe col	mpietea	for each sit	e)			
Date & Time: (19/07	1830	2			Site Loca	tion Descripti	on (e.g.,	road crossing):		
	Personnel (Data Collectors): ZACTURT & WAT				POA	D CROSS	1766	3 Jewel	C RD,		
Current Weather (Facility Name: KIDDER WWTF					
Weather Condition	Weather Conditions for Past 10 days: FAIR					Permit N	umber: M	DØII	8591		
Drought Condition	ns?: No drou	ight 🏿 Pl	ase I □;	Phase II	□; Ph		de delectors				
Site Locations:		,					-2				
PEROPARTION COORS	INATES (UNIN	ERSALTR	Ansvers	EMERCA	TOR PR	OJECTION	FINAMENERS)				
Site GPS Coord							Y: 09 4,	108	00		
HORIZONTALLCOL	LECTION ME	THOD (Indic	ate the me	thod used	to deter	mine the loc	ational data.)		TEAPLESTA.		
Static Mode	Global Po	sitioning S	ystem (G	PS)	7 10,2		Topographic N		Interpolation	on " i i i i i i i i i i i i i i i i i i	
Dynamic Mode (Kine	ematic)						Aerial Photogr				
Precise Positioning	Service						Satellite Imag	ery			
Signal Averaging							Interpolation (Other			
Real Time Differenti							f Comment		Gradenskov	41 ga 140	
HORIZONTAL ACC		and the same of the same of the first	CONT. BUT OF STATE TO SERVE								
		GPS Data Q	uality						Interpolation Dat	a Quality:	
FOM ±Meters					Source	Man Scal	e: 1:24.000 1:100.0	000 Other			
EPE	±	Feet or ±Meters					Source Map Scale: 1:24,000 1:100,000 Other ± Feet or ± Meters				
PDOP		-							reet or ±	IMELEIS	
Photos:								P) Bo	ARD MISSIN	IG SITE &	+
Upstream Photos			Do	ownstream Photos Other Photos							
Photo ID#	Phot	to Purpose Photo ID#			D#	P	Photo Purpose Photo ID#			Photo I	Purpose
530-11,12 TRAN. J-K 530-9,18				9,10	TRAN. 8-A-						
Uses Observed	l*: (Uses a	ctually o	bserve	d at tir	me of	survey.)					
☐ Swimming		☐ Skin	diving		□ sc	UBA divi	ng	☐ Tubi	ng	☐ Water s	kiing
☐ Wind surfing	5	☐ Kayal	ting	☐ Boating				☐ Wad	ing	☐ Rafting	5
☐ Hunting		☐ Trapp			☐ Fishing			Non	e of the above	☐ Other:	
Use Interview w	vhen conduct	ing intervi	ews.)				*		ional uses, etc. U		
Surrounding C unusual items of	interest.)	s*: (Mar	k all tha	at prom	ote or	impede	recreationa	ıl uses.	Attach photos	of evidence	or
☐ City/county	parks	☐ Plays	grounds	□м	☐ MDC conservation lands			☐ Urban areas		☐ Campa	grounds
☐ Boating acc	esses	☐ State	parks		Vational	forests		☐ Nature trails		☐ Stairs/	walkway
☐ No trespass	sign	Fenc	e	⊠s	steep slo	pes		☐ None of the above		☐ Other:	
Comments:	8		122								
Indications of	Human L	Jse*: (a1	tach pl	hotos)							
X Roads	☐ Rope			ot paths/p	orints	□ Docl	k/platform		ivestock Waterin	g RV/A	ΓV Tracks
☐ Camping Si	ites		☐ Fire	pit/ring		☐ NPD	ES Discharge		rishing Tackle	☐ Other:	
Comments:	SEWEL	LP	Q.					· ·		Tester a constant	
					10001-00107	7					

*			CHAN	INEL FEATURE	%
Page Two – Data S Stream Morphology	Sheet B for WBID #	530:	RUN	DNEL FEATURE J: 50 RIF	FLE !
NEW MEAN	Physical Dimensions:	Is there any water	present at this vi	oL: _50 ew? □ Yes □ No	
	V	If so, is there and			
Select one of the fo	ollowing channel featu		oovious current?	□ 1es □ 100	
Channel Feature	Distance from access (m)	Width (m)	Length (m)	Median Depth (m)	Max. Depth (m)
RIFFLE					
RUN					
POOL	<u> </u>				
	ollowing channel feat	If so, is there a	nter present at thi		Tue
Channel Feature RIFFLE	Distance from access (m	Width (m)	Length (m)	Median Depth (m)	Max. Depth (m)
RUN					
POOL					
ubstrate*: (These	values should add up to 1	00%)	1		
% Cobble		50 % Sand	30%	Silt % Mud/Clay	% Bedrock
	SPARSE ALGAL stics*: (Mark all that ap		71(1-2-		
Odor:	☐ Sewage ☐ M	5 128	mical 🖄 N	None	
Color:	☐ Clear ☐ G			Milky Other:	
Bottom Deposit:	□ Sludge □ S	olids Fine	sediments \square	None	
Surface Deposit:	□ Oil □ S	cum 🗆 Foa	m X1	None 🗆 Other:	
*This information is not comprehensive underst decision on the recreated. Please verify that years. Surveyor's Signature.	canding of water condition use analysis but may ou have completed all	moval of a recreation as. Consequently, the point to conditions the	nal use designation his information is r hat need further an	but rather is to provide a solution intended to directly infludysis or that effect another boxes and that everything the survey: (19/200)	nuence a er use. ing is complete.
Organization: 8	NR COPY.		Position: _	env. ScI.	-

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

530 \$3

Distance from Stream edge Depth Rank Assigned Rank Sorted depth	
WETTED WIDTH	
2 CO O O O O O O O O O O O O O O O O O O	
C O O O O O O O O O	
MEASUREMENTS 0, 3	
5	
5 0.60 m 0.1 AFART 20.1 8 0.1 8 0.1 9 10 10 <0.1 11 11 WETTED WIDTH 0, 1 12 CHANNEL FEATURE . 7 7 13 RUN 1 14 14 15 DISSOLVED OXYGEN: 5 0.76 m 0.5 4 APART 0,3 7 18	
7	
7 8 9 0. 8 9 10 10 10 11 WETTED WIDTH 0, 12 CHANNEL FEATURE'. 7 13 RUN 14 MEASUREMENTS 0, 2 15 DISSOLVED DRYGEN: 16 APART 0, 3 17 7 9 11 11 12 CHANNEL FEATURE'. 13 RUN 14 15 DISSOLVED DRYGEN: 16 41 42 43 44 44 45 45 45 45 45 45	
9 10	
10 10 11 11 12 CHANNEL FEATURE'. 2 7.6 0.1 13 RUN 14 15 DISSOLVED OXYGEN: 5 0.76 M 0.7 16 17 7.92 PPM 18	
11 WETTED WIDTH 0, 12 CHANNEL FEATURE'. 2 7.6 0.1 13 RUN 3 0.7 14 4 MEASUREMENTS 0.2 15 DISSOLVED DRYGEN: 5 0.76 M 0.3 16 4 APART 0.3 17 7.92 PPM 7 0.4 18	
WETTED WIDTH 0, 12 CHANNEL FEATURE '. 2 7,6 0, 13 RUN 14 15 DISSOLVED OXYGEN: 5 0.76 M 0.75 16 16 17 7.92 PPM 7 0.4 18	
WETTED WIDTH 0, 12 CHANNEL FEATURE '. 2 7,6 0, 13 RUN 14 15 DISSOLVED OXYGEN: 5 0.76 M 0.75 16 16 17 7.92 PPM 7 0.4 18	
2 7.6 0.1 13 RUN 3 0.7 14 4 MEASUREMENTS 0.2 15 DISSOLVED DRYGEN: 5 0.76 M 0.3 16 6 APART 0.3 17 7.92 PPM 7 0.4 18	
3 0.7 14 4 MEASUREMENTS 0.12 15 DISSOLVED OXYGEN: 5 0.76 M 0.3 16 4 APART 0.3 17 7.92 PPM 7 0.4 18	
5 0.76 M 0.3 16 6 APART 0.3 17 7.92 PPM 7 0.4 18	
5 0,76 M 0,3 16 6 APART 0,3 17 7,92 PPM 7 0,4 18	
7 0.4 18	
7 0.4 18	
9 0.3 19	
9 0,3 20	
(o) 0.Z 21	
22 CHANNEL FEATURE:	
WETTED WIDTH 0,1 23 POOL	
2 8.0 0.1 24	
3 0.7 25 DISSOLUED OXYGE	1:
4 MEASUREMENTS 0.4 26	35
3 0.80 m 0.5	
7 0,4	10.05
8 0, 3 n	
9 0.5	
0.4	

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

I, the undersigned, hereby affirm to the best of my k	knowledge, that all information repo	orted on this UAA
datasheet is true and accurate.		
Signed:	Date:6/19/07	
Organization: BUR CORP.	Position: ENV. SCI.	
February 5, 2007		Page 25

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

Distance from Stream edge	Depth	Rank	Assi	gned Rank	Sorted depth
WETTED WIDTH	0.1		1	C442.151	FEATURE:
7 4.5	0.7		2	Pool	regione.
7 4.5	0.3		3	1000	
4 MEASUREMENTS	0.3		4	DISCOLUED	OXYGEN:
5 0.45 M	0.4		5	1517300000	जर्भ स्वटाउ
6 APART	0.7		6	7.54	- Out
7	0.1		7		ppm
9	<0.1		8		
9	<0.1		9		
10	Lo.		10		
			11	CHANNEL	FEATURE:
HIDIN DETTED WIDTH	0,7		12	POOL	101100.
2 6.7	0,2		13	1000	
3	0.7		14	DISSOLVED	OXYGEN:
3 4 MEASURE MENT	3 0.7		15		11.100
5 0.67 n	0.3		16	7.35	pom
6 APART	0.3		17		1111
7	0.2		18		
8	0.7		19		
9	0,1		20		
18	0.1		21		
			22	CHANNE	FEATURE:
1 MELLED MIDE			23	POOL	
7 4.0	< 0.1		24		
3	0,1		25		
4 MEASUREMENT			26	DISSOLU	ED OXYGEN:
5 0140 n	0.1				
6 ARART	0.1			7.69	ppm
7	0.2				
8	0.2		n		
1	0.2				
10	0,3				

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my know	wledge, that all information reported on this UAA
datasheet is true and accurate.	A . /
datasheet is true and accurate. Signed:	Date: 6/19/07
Organization: BUR COR.	Position: ENV. SCI,

Page 25

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

53n #3

Г			530 FS		
		Depth	Rank	Assigned Rank	Sorted depth
,	Stream edge				
-	METTEDWIDTH	6.1		1 CHANNEL F	EATURE!
7	5.3	LO, 1		2 POOL	
3		Lo.1		3	
4	MEGSUPENENTS	0,		4 DISSOLVED	oxygen:
5	0153 m	0.1		5	
67	APART	0.2		6 7.63	ppm
		0.3		7	11
8		0,3		8	
9		0,7		9	
10		0.		10	
				11	
l	WETTER WIDTH	< 0.1		12 CHANNEL	FEATURE:
2	5.0	0.1		13 POOL	
3		0.3		14	
4	MEASUREMENTS	0.5		15 DISSOLUE	DOXYGEN.
5	0.50 M	0.5		16	
67	APART	0.6		17 7.73	ppm
		0.6		18	< 11
8		0.6		19	
9		0.5		20	Ŵ.
10		0.5		21	
		,		22	
1	METTED WIDTH	20.1		23 Dol chann	EL FEATURE:
Z	.5	(0.1		24 RUN	
3		0.1		25	
4		0.1		26 DISSOLU	ED EXYGEN:
5	MEASUREMENTS	0.1			Ta
Ç	0.15 M	0.1		7.92	ppm
7	ASART	0.1			11
8		0.		n	
9		0.			
10	<u> </u>	01			

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

I, the undersigned, hereby affirm to the best of my datasheet is true and accurate.	1
Signed:	Date: 6/19/07
Organization: BWR COPP.	Position: ENV. SCI.
February 5, 2007	Page 25

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

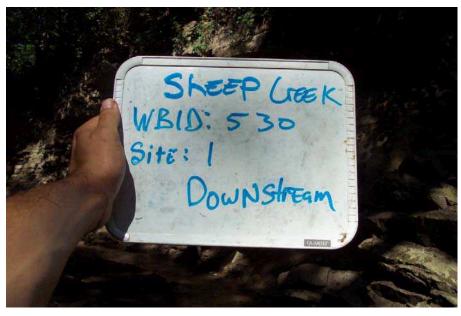
Distance from	Depth	Rank	Assigned Rank	Sorted depth
Stream edge	,			
METTED WIDTH	20.1		1 CHANNEL F	EANRE!
2.0	40.1		2 RUN	
	40.1		3	
MEASUREMENTS	<0.		4 DISSOLVED	oxigen:
0500 M	< 0.1		. 5	
ARART	<0.1		6 8.41	gen
	40.1		7	1 11
	50.1		8	
	20,1		9	
	< 0.1		10	
×			11	
HEAD MIDTH	< 0.1		12 CHANNEL	FEATURE !
7.7	< 0.1		13 RUN	
	CO.1		14	
MERSUREMENTS	<0.1		15 DISSOLUE	D OXYGEN:
D.77 M	< 0.		16	(30.
APART	20.1		17 \$,33	0000
7	<0.		18	ppm
8	<0.1		19	
1	<01		20	
0	60.1		21	
	`		22	
			23	
			24	
43.79			25	
			26	
			n	
			9	

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

datasheet is true and accurate.	ny knowledge, that all information reported on this UAA
Signed:	Date: 6 1907
Organization: BWR CORP.	Position: ENV. SCI,
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Downstream (Site #1) of Sheep Creek



Downstream (Site #1) of Sheep Creek



Upstream (Site #1) of Sheep Creek



Upstream (Site #1) of Sheep Creek



Upstream (Site #2) of Sheep Creek



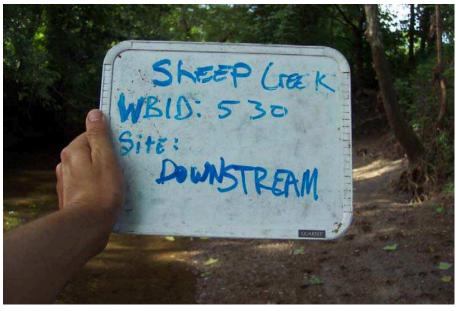
Upstream (Site #2) of Sheep Creek



Downstream (Site #2) of Sheep Creek



Downstream (Site #2) of Sheep Creek



Downstream (Site #3) of Sheep Creek



Downstream (Site #3) of Sheep Creek



Upstream (Site #3) of Sheep Creek



Upstream (Site #3) of Sheep Creek